

APR. 15. 2004 9:37AM

ABBOTT LABSP3/2

NO. 3536
NO. 3333

P. 2
P. 2/5

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mukerji et al.
Serial No.: 09/624,670
Filed: July 24, 2000
For: ELONGASE GENES AND USES
THEREOF
Case No.: 6407.US.P2
Examiner: Ramirez, D.
Group Art Unit: 1652

I hereby certify that this paper
(along with any paper referred to
as being attached or enclosed) is
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below on the date shown below:

(571) 273-0938 = fax #

Cheryl L. Becker 4/15/04
Cheryl L. Becker Date

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

We, AMANDA E. LEONARD, PRADIP MUKERJI, JENNIFER M.
PARKER-BARNES and JENNIFER THURMOND, citizens and residents
of the United States of America, and we, TAPAS DAS and
YUNG-SHENG HUANG, citizens of India and Taiwan,
respectively, and residents of the United States of
America, do declare and say that:

We are co-inventors of the above-referenced
application for patent filed on July 24, 2000.

In the Office Action of December 17, 2002, claims 1-5,
8-9, 11-17, 18-22 and 47 are rejected under 35 U.S.C.
102(a) as being anticipated by Tvrdik et al. (J. Cell Biol.

149(3):707-717, May 2000; GenBank accession number AF170908). Additionally, claims 10 and 18 are also rejected under 35 U.S.C. 103(a) as being unpatentable over Tvrdik et al. (J. Cell. Biol. 149(3):707-717, May 2000; GenBank accession number AF170908). Further, claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tvrdik et al. (J. Cell Biol. 149(3):707-717, May 2000; GenBank accession number AF170908) in view of Lassner et al. (The Plant Cell 8:281-292, 1996).

We conceived and reduced to practice the invention claimed in claims 1-5, 8-24 and 47 prior to the publication date of the Tvrdik et al. reference, as evidenced by the following:

Attached Exhibit A illustrates that, prior to the May 2000 publication date of Tvrdik et al., we identified the nucleotide sequences of MELO4 and MELO7 as well as the encoded amino acid sequences of the proteins. We constructed two vectors (i.e., pRAE-84-4 and pRAE-87-4) using the cDNA sequence of MELO4 and cDNA sequence of MELO7, respectively, and cloned these two vectors.

Attached Exhibit B illustrates that, prior to the May 2000 publication date of Tvrdik et al., we transformed host cells (i.e., yeast cells) with the respective cloned vectors in order to express MELO4 and MELO7.

Attached Exhibit C illustrates that, prior to the May 2000 publication date of Tvrdik et al., we established the elongase activity of both the MELO4 and MELO7 polypeptide sequences.

In summary, the attached Exhibits establish that the claimed invention was conceived of and reduced to practice, prior to the publication date of Tvrdik et al. (i.e., May 2000).

Although all the dates on Exhibits A-C have been blocked out, such dates are prior to May 2000, with the exception of the witnessing dates which are subsequent to May 2000.

We declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such

willful false statements may jeopardize the validity of the
instant application or any patent issuing thereon.

Respectfully submitted,

By: Amanda Eun Young Leonard
Amanda E. Leonard

Date: April 13, 2004

By: Pradip Mukerji
Pradip Mukerji

Date: April 13, 2004

By: Tapas Das
Tapas Das

Date: April 13, 2004

By: Yung-Sheng Huang
Yung-Sheng Huang

Date: Apr 13, 2004

By: Jennifer Thurmond
Jennifer Thurmond

Date: April 13th 2004

By: Jennifer M. Parker-Barnes
Jennifer M. Parker-Barnes

Date: April 14th 2004

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ABBOTT LABS

NO. 3536 P. 6

EXHIBIT A

PROJECT TITLE Transgenic Lipids

Continued from Notebook 3681

Cont'd

Digest mm candidates into p4x242

4) mm4 (NcoI/DraI) + p4x242 (NcoI/HindIII)

6) mm6 (HpaI/NcoI) + "

7) mm7 (Sfi/NcoI) + p4x242 (NcoI/EcoRI)

Transformation into Top10 cells (LB + RecA - 200 µg/ml)

2/28/04

Set up PCR to sequence pPRF-SD-A2 & A3 (putative A24)

1) pPRF-SD-A2 R0424

2) " R0425

3) " R0764

4) " R0766

5) " R0765

6) pPRF-SD-A3 R0424

7) " R0425

8) " R0764

9) " R0766

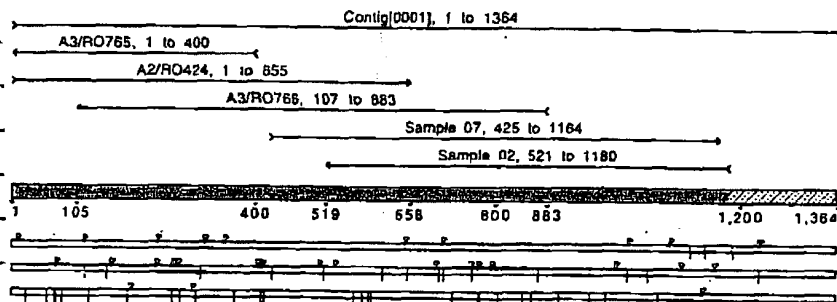
10) " R0765

11) Control

Sequencing of the seq. control and for
either #2 or #3

Applied Biosystems

Lane	File Name	Sample Name
1	Sample 01	A2/RO424
2	Sample 02	A2/RO425
3	Sample 03	A2/RO764
4	Sample 04	A2/RO766
5	Sample 05	A2/RO765
6	Sample 06	A3/RO424
7	Sample 07	A3/RO425
8	Sample 08	A3/RO764
9	Sample 09	
10	Sample 10	
11	Sample 11	A3/RO766
12	Sample 12	A3/RO765
13	Sample 13	CONTROL

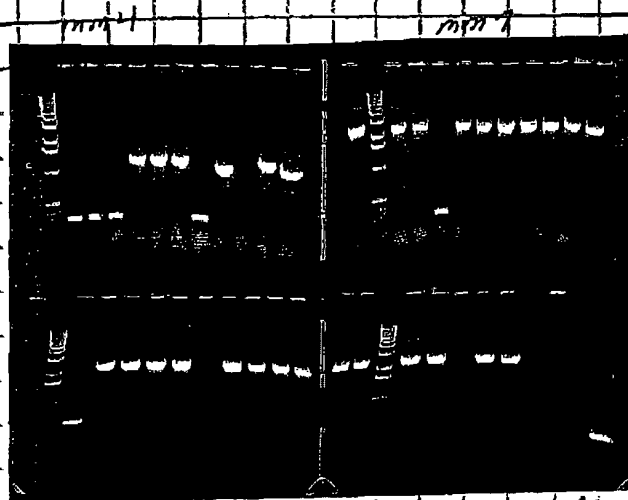
Contig[0005]
Sequencher™ "Untitled Project"

Project No.	Signature <i>Donanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

PROJECT TITLE

Transgenic Lipidase

PCR screen for *lip* from old plated colonies. } file # 100
 Also PCR screen for *mm4* & *mm7* at R424, 425



screened 11 colonies for
mm4 - pick all *lip*
 to grow d/w for mp.

screened *mm7* for *mm7*
 pick 1st & 6 to grow
 d/w for mp.

screened 11 for *lip* -
 at R424, 425 - no clones

also amplified cells from
 Q22 (d/w) at R424/5

CDNA-poly band ~1.5 kb

~~PAGE 84~~

PCR-R4-4 5, 6, 8, 10, 14 (P4X242 (New/Hond) + *mm4* R419/20

PCR-R7-3 4, 5, 6, 8, 9 (P4X242 (New/Econ) + *mm7* R415 R433 R435

Start d/w cultures of PRAE-R4 & PRAE-R7 to mp

Start *mm7* - A2 w/ Econ. E. econ.

Load tot vol 21 amp g Load tot vol
 micropipette for micropipette
 at start

fill in *mm5* 7, 9a, 9b & 10, Load tot vol ligate w/
 micropipette concentrate down pch-Blunt

ligate *mm1* - A2 Sur w/ P4X242 (New/Hond) R41
 (New/Econ)

Transform into Top10 - also *mm5* candidates in pch-Blunt

Project No.	Signature <u>Amelia E. Leonard</u>	Date
Witnessed By <u>Paul Johns</u>		Page

PROJECT TITLE Transgenic Oil

HELLO my Translated Sequence
6:44 PM

Sequence Number: 1 to 1023

1040

AAA TTT T

3815 - 23

PROJECT TITLE

Isomagenic Oil

110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Project No.	Signature <i>Ronald E. Leonard</i>	Date
Witnessed By <i>Paul Johnson</i>		Date

PROJECT TITLE

Paraffinic Oil

[illegible]

Project No.	Signature <i>Ronanda E. Leonard</i>	Date
Witnessed By <i>Paul John</i>		Date

APR. 15. 2004 9:41AM

ABBOTT LABS LABORATORIES

NO. 3536 P. 12

PRO. TITLE Transgenic Lipid 2

Amanda E. Leonard
08:10 AM

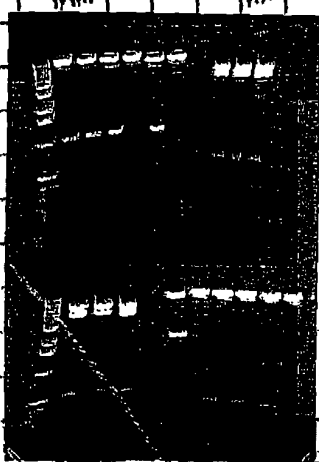
To: Emil G. Bobik/COLUMBUS/ROSS PRODUCTS DIVISION/US,
cc: Vic Huang/COLUMBUS/ROSS PRODUCTS DIVISION/US,
Subject: Sample descriptions

Hi Emil,
Here's the list:

- 1) 334(pRAE-80) LA 8.75ul
- 2) 334(pYX242) LA
- 3) 334(pRAE-80) DGLA 9.2ul
- 4) 334(pYX242) DGLA
- 5) 334(pRAE-80) ADA 8.3ul
- 6) 334(pYX242) ADA
- 7) 334(pRAE-80) ALA 3.5ul
- 8) 334(pYX242) ALA
- 9) 334(pRAE-80) EPA 30.2ul
- 10) 334(pYX242) EPA
- 11) 334(pRAE-80/pRAE-73) ALA
- 12) 334(pYX242/pYES2) ALA
- 13) 334(pRAE-80/pRAE-73) LA
- 14) 334(pYX242/pYES2) LA
- 15) 334(pRAE-80/pRAE-73) STA 6.9ul
- 16) 334(pYX242/pYES2) STA

We're also interested in detecting delta4-desaturated 16:1 in all of the samples.

Thank!
Amanda



~~For pRAE-80~~

Cut pRAE-80 (mm) w/ XhoI - expecting 2.948bp
Cut pRAE-80 (mm) w/ EcoRI - expecting 2.206bp
Cut pRAE-80 (mm) w/ EcoRI - expecting 2.206bp

main primers to sequence these clones.

Transform into SC334

pRAE-80-1, pRAE-80-1 & pRAE-80-1

Also extract 334(pYX242)

Need to check GLA, AA, ADA, A2A, STA, EPA & DPA instead of A2A

Pellet yeast cultures & submit for full profile analysis

mini-prep just 10 of cultures for pRAE-80 & 5 & 7

Digest up enzymes to confirm insert

Exp. pRAE-80 - since closed ^{DR2} ~~transformation~~ ^{DR2} ~~vector~~ insert into ~~vector~~ ^{DR2} ~~vector~~

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

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ABBOTT LABS

NO. 3536 P. 13

EXHIBIT B

3 APR. 15. 2004 9:42AM

ABBOTT LABS PRODUCTS DIVISION
LABORATORIES

NO. 3536 P. 14

PROJECT TITLE Transgenic Lipid

Amanda E. Leonard
08:10 AM

To: Emil G. Bobik/COLUMBUS/ROSS PRODUCTS DIVISION/US,
cc: Vic Huang/COLUMBUS/ROSS PRODUCTS DIVISION/US,
Subject: Sample descriptions

Hi Emil,
Here's the list:

- | | | | |
|-----|----------------------|------|--------|
| 1) | 334(pRAE-80) | LA | 8.75ul |
| 2) | 334(pYX242) | LA | |
| 3) | 334(pRAE-80) | DGLA | 9.5ul |
| 4) | 334(pYX242) | DGLA | |
| 5) | 334(pRAE-80) | ADA | 8.3ul |
| 6) | 334(pYX242) | ADA | |
| 7) | 334(pRAE-80) | ALA | 3.5ul |
| 8) | 334(pYX242) | ALA | |
| 9) | 334(pRAE-80) | EPA | 20.2ul |
| 10) | 334(pYX242) | EPA | |
| 11) | 334(pRAE-80/pRAE-73) | ALA | |
| 12) | 334(pYX242/pYES2) | ALA | |
| 13) | 334(pRAE-80/pRAE-73) | LA | |
| 14) | 334(pYX242/pYES2) | LA | |
| 15) | 334(pRAE-80/pRAE-73) | STA | 6.9ul |
| 16) | 334(pYX242/pYES2) | STA | |

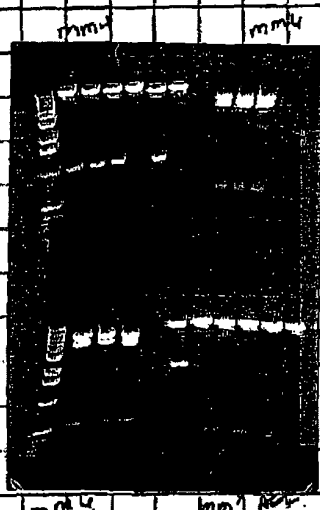
We're also interested in detecting delta4-desaturated 16:1 in all of the samples.

Thanks!
Amanda

Pellet yeast cultures &
submit for full profile
analysis

mini-prep just 10 ul
cultures for pRAE-80,
etc 5 & 7

Digest up enzymes to
confirm insert
Exp. pRAE-80 - correct
cloned ^{DNA} fragment from cut
insert into ^{PCR} linearized
cut vectors



~~cut pRAE-80~~

cut pRAE-84 (mm4) w/ XhoI - expecting ~9.4kbp
cut pRAE-86 (mm4) w/ EcoRI/PstI - expecting ~4.2kbp
cut pRAE-87 (mm4) w/ EcoRI - expecting ~3.5kbp

main primers to sequence these
clones.

Transform into SC334

pRAE-84-4, pRAE-86-1 & pRAE-87-4

Also streaks 334(pYX242)

Need to check GLA, AA, ADA, ALA, STA, EPA & DPA instead of LA

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

APR. 15. 2004 9:42AM

ABBOTT LABS

NO. 3536 P. 15

EXHIBIT C

PROJECT TITLE

Inorganic Oil

Fatty Acid Profile

[illegible]

Lipid Research Lab

Fatty Acid Profile

America Learned	25Apr77E22		25Apr80E24-4		25Apr80E24-11		25Apr80E27-4	
	CLA	1	2	CLA	1	2	CLA	1
m00000	LBL-3066		LBL-3068	LBL-3106		LBL-3108		
	W000101		W000251	W000301		W000351		
			generating gamma flux only					
C10-8	9.25	15.07	9.81		23.13			
C12-9	5.24	7.34	8.15		10.88			
C13-9								
C14-9	2.99	2.85	3.02		1.99			
C14-1	1.14	1.21	1.15		0.84			
C15-9	0.48	0.49	0.51		0.33			
C19-9	22.02	19.53	20.88		13.41			
C18-1w7	31.15	28.77	28.80		14.51			
C18-1w6	0.34	0.30	0.31		0.28			
C16-2								
C17-8	0.13	0.17	0.18		0.20			
C16-3								
C18-4								
C18-5	2.88	3.29	3.74		3.13			
C18-1w9	15.94	14.18	16.10		12.05			
C18-1w7	1.25	1.21	1.41		1.60			
C18-1w5	0.10		0.13		0.20			
C18-2w6	0.12	0.17	0.09					
C18-3w6	4.33	4.21	4.60		1.11			
C18-3w3								
C18-4w3								
C20-9	0.19	0.25	0.23		0.25			
C20-1w11					0.87			
C20-1w9	0.09		0.21		0.35			
C20-1w7			0.13		0.98			
C20-2w9								
C20-3w9	0.10	0.37	0.20		4.10			
C20-4w6								
C20-3w3								
C20-4w3								
C20-5w3								
C22-9	0.58	0.89	0.83		0.86			
C22-1w11								
C22-1w9	0.48	0.77	0.60		0.94			
C22-1w7								
C22-4w6								
C22-5w6								
C22-4w3								
C22-5w3								
C24-0	0.65	0.97	1.04		1.80			
C22-5w3								
C24-1w9								
C24-4w677								
C24-5w377								
total	100	100	100		100			

Lipid Research Lab

3768-033.xfh
Page 7 of 12

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date

PROJECT TITLE

Transgenic Oil

Fatty Acid Profile

Amount Lipid	34:0 (12:0)	34:1 (13:0)	34:2 (14:0)	34:3 (15:0)	34:4 (16:0)	34:5 (17:0)	34:6 (18:0)	34:7 (19:0)	34:8 (20:0)	34:9 (21:0)	34:10 (22:0)	34:11 (23:0)	34:12 (24:0)	34:13 (25:0)	34:14 (26:0)	34:15 (27:0)	34:16 (28:0)	34:17 (29:0)	34:18 (30:0)	34:19 (31:0)	34:20 (32:0)	34:21 (33:0)	34:22 (34:0)	34:23 (35:0)	34:24 (36:0)	34:25 (37:0)	34:26 (38:0)	34:27 (39:0)	34:28 (40:0)	34:29 (41:0)	34:30 (42:0)	34:31 (43:0)	34:32 (44:0)	34:33 (45:0)	34:34 (46:0)	34:35 (47:0)	34:36 (48:0)	34:37 (49:0)	34:38 (50:0)	34:39 (51:0)	34:40 (52:0)	34:41 (53:0)	34:42 (54:0)	34:43 (55:0)	34:44 (56:0)	34:45 (57:0)	34:46 (58:0)	34:47 (59:0)	34:48 (60:0)	34:49 (61:0)	34:50 (62:0)	34:51 (63:0)	34:52 (64:0)	34:53 (65:0)	34:54 (66:0)	34:55 (67:0)	34:56 (68:0)	34:57 (69:0)	34:58 (70:0)	34:59 (71:0)	34:60 (72:0)	34:61 (73:0)	34:62 (74:0)	34:63 (75:0)	34:64 (76:0)	34:65 (77:0)	34:66 (78:0)	34:67 (79:0)	34:68 (80:0)	34:69 (81:0)	34:70 (82:0)	34:71 (83:0)	34:72 (84:0)	34:73 (85:0)	34:74 (86:0)	34:75 (87:0)	34:76 (88:0)	34:77 (89:0)	34:78 (90:0)	34:79 (91:0)	34:80 (92:0)	34:81 (93:0)	34:82 (94:0)	34:83 (95:0)	34:84 (96:0)	34:85 (97:0)	34:86 (98:0)	34:87 (99:0)	34:88 (100:0)	34:89 (101:0)	34:90 (102:0)	34:91 (103:0)	34:92 (104:0)	34:93 (105:0)	34:94 (106:0)	34:95 (107:0)	34:96 (108:0)	34:97 (109:0)	34:98 (110:0)	34:99 (111:0)	34:100 (112:0)	34:101 (113:0)	34:102 (114:0)	34:103 (115:0)	34:104 (116:0)	34:105 (117:0)	34:106 (118:0)	34:107 (119:0)	34:108 (120:0)	34:109 (121:0)	34:110 (122:0)	34:111 (123:0)	34:112 (124:0)	34:113 (125:0)	34:114 (126:0)	34:115 (127:0)	34:116 (128:0)	34:117 (129:0)	34:118 (130:0)	34:119 (131:0)	34:120 (132:0)	34:121 (133:0)	34:122 (134:0)	34:123 (135:0)	34:124 (136:0)	34:125 (137:0)	34:126 (138:0)	34:127 (139:0)	34:128 (140:0)	34:129 (141:0)	34:130 (142:0)	34:131 (143:0)	34:132 (144:0)	34:133 (145:0)	34:134 (146:0)	34:135 (147:0)	34:136 (148:0)	34:137 (149:0)	34:138 (150:0)	34:139 (151:0)	34:140 (152:0)	34:141 (153:0)	34:142 (154:0)	34:143 (155:0)	34:144 (156:0)	34:145 (157:0)	34:146 (158:0)	34:147 (159:0)	34:148 (160:0)	34:149 (161:0)	34:150 (162:0)	34:151 (163:0)	34:152 (164:0)	34:153 (165:0)	34:154 (166:0)	34:155 (167:0)	34:156 (168:0)	34:157 (169:0)	34:158 (170:0)	34:159 (171:0)	34:160 (172:0)	34:161 (173:0)	34:162 (174:0)	34:163 (175:0)	34:164 (176:0)	34:165 (177:0)	34:166 (178:0)	34:167 (179:0)	34:168 (180:0)	34:169 (181:0)	34:170 (182:0)	34:171 (183:0)	34:172 (184:0)	34:173 (185:0)	34:174 (186:0)	34:175 (187:0)	34:176 (188:0)	34:177 (189:0)	34:178 (190:0)	34:179 (191:0)	34:180 (192:0)	34:181 (193:0)	34:182 (194:0)	34:183 (195:0)	34:184 (196:0)	34:185 (197:0)	34:186 (198:0)	34:187 (199:0)	34:188 (200:0)	34:189 (201:0)	34:190 (202:0)	34:191 (203:0)	34:192 (204:0)	34:193 (205:0)	34:194 (206:0)	34:195 (207:0)	34:196 (208:0)	34:197 (209:0)	34:198 (210:0)	34:199 (211:0)	34:200 (212:0)	34:201 (213:0)	34:202 (214:0)	34:203 (215:0)	34:204 (216:0)	34:205 (217:0)	34:206 (218:0)	34:207 (219:0)	34:208 (220:0)	34:209 (221:0)	34:210 (222:0)	34:211 (223:0)	34:212 (224:0)	34:213 (225:0)	34:214 (226:0)	34:215 (227:0)	34:216 (228:0)	34:217 (229:0)	34:218 (230:0)	34:219 (231:0)	34:220 (232:0)	34:221 (233:0)	34:222 (234:0)	34:223 (235:0)	34:224 (236:0)	34:225 (237:0)	34:226 (238:0)	34:227 (239:0)	34:228 (240:0)	34:229 (241:0)	34:230 (242:0)	34:231 (243:0)	34:232 (244:0)	34:233 (245:0)	34:234 (246:0)	34:235 (247:0)	34:236 (248:0)	34:237 (249:0)	34:238 (250:0)	34:239 (251:0)	34:240 (252:0)	34:241 (253:0)	34:242 (254:0)	34:243 (255:0)	34:244 (256:0)	34:245 (257:0)	34:246 (258:0)	34:247 (259:0)	34:248 (260:0)	34:249 (261:0)	34:250 (262:0)	34:251 (263:0)	34:252 (264:0)	34:253 (265:0)	34:254 (266:0)	34:255 (267:0)	34:256 (268:0)	34:257 (269:0)	34:258 (270:0)	34:259 (271:0)	34:260 (272:0)	34:261 (273:0)	34:262 (274:0)	34:263 (275:0)	34:264 (276:0)	34:265 (277:0)	34:266 (278:0)	34:267 (279:0)	34:268 (280:0)	34:269 (281:0)	34:270 (282:0)	34:271 (283:0)	34:272 (284:0)	34:273 (285:0)	34:274 (286:0)	34:275 (287:0)	34:276 (288:0)	34:277 (289:0)	34:278 (290:0)	34:279 (291:0)	34:280 (292:0)	34:281 (293:0)	34:282 (294:0)	34:283 (295:0)	34:284 (296:0)	34:285 (297:0)	34:286 (298:0)	34:287 (299:0)	34:288 (300:0)	34:289 (301:0)	34:290 (302:0)	34:291 (303:0)	34:292 (304:0)	34:293 (305:0)	34:294 (306:0)	34:295 (307:0)	34:296 (308:0)	34:297 (309:0)	34:298 (310:0)	34:299 (311:0)	34:300 (312:0)	34:301 (313:0)	34:302 (314:0)	34:303 (315:0)	34:304 (316:0)	34:305 (317:0)	34:306 (318:0)	34:307 (319:0)	34:308 (320:0)	34:309 (321:0)	34:310 (322:0)	34:311 (323:0)	34:312 (324:0)	34:313 (325:0)	34:314 (326:0)	34:315 (327:0)	34:316 (328:0)	34:317 (329:0)	34:318 (330:0)	34:319 (331:0)	34:320 (332:0)	34:321 (333:0)	34:322 (334:0)	34:323 (335:0)	34:324 (336:0)	34:325 (337:0)	34:326 (338:0)	34:327 (339:0)	34:328 (340:0)	34:329 (341:0)	34:330 (342:0)	34:331 (343:0)	34:332 (344:0)	34:333 (345:0)	34:334 (346:0)	34:335 (347:0)	34:336 (348:0)	34:337 (349:0)	34:338 (350:0)	34:339 (351:0)	34:340 (352:0)	34:341 (353:0)	34:342 (354:0)	34:343 (355:0)	34:344 (356:0)	34:345 (357:0)	34:346 (358:0)	34:347 (359:0)	34:348 (360:0)	34:349 (361:0)	34:350 (362:0)	34:351 (363:0)	34:352 (364:0)	34:353 (365:0)	34:354 (366:0)	34:355 (367:0)	34:356 (368:0)	34:357 (369:0)	34:358 (370:0)	34:359 (371:0)	34:360 (372:0)	34:361 (373:0)	34:362 (374:0)	34:363 (375:0)	34:364 (376:0)	34:365 (377:0)	34:366 (378:0)	34:367 (379:0)	34:368 (380:0)	34:369 (381:0)	34:370 (382:0)	34:371 (383:0)	34:372 (384:0)	34:373 (385:0)	34:374 (386:0)	34:375 (387:0)	34:376 (388:0)	34:377 (389:0)	34:378 (390:0)	34:379 (391:0)	34:380 (392:0)	34:381 (393:0)	34:382 (394:0)	34:383 (395:0)	34:384 (396:0)	34:385 (397:0)	34:386 (398:0)	34:387 (399:0)	34:388 (400:0)	34:389 (401:0)	34:390 (402:0)	34:391 (403:0)	34:392 (404:0)	34:393 (405:0)	34:394 (406:0)	34:395 (407:0)	34:396 (408:0)	34:397 (409:0)	34:398 (410:0)	34:399 (411:0)	34:400 (412:0)	34:401 (413:0)	34:402 (414:0)	34:403 (415:0)	34:404 (416:0)	34:405 (417:0)	34:406 (418:0)	34:407 (419:0)	34:408 (420:0)	34:409 (421:0)	34:410 (422:0)	34:411 (423:0)	34:412 (424:0)	34:413 (425:0)	34:414 (426:0)	34:415 (427:0)	34:416 (428:0)	34:417 (429:0)	34:418 (430:0)	34:419 (431:0)	34:420 (432:0)	34:421 (433:0)	34:422 (434:0)	34:423 (435:0)	34:424 (436:0)	34:425 (437:0)	34:426 (438:0)	34:427 (439:0)	34:428 (440:0)	34:429 (441:0)	34:430 (442:0)	34:431 (443:0)	34:432 (444:0)	34:433 (445:0)	34:434 (446:0)	34:435 (447:0)	34:436 (448:0)	34:437 (449:0)	34:438 (450:0)	34:439 (451:0)	34:440 (452:0)	34:441 (453:0)	34:442 (454:0)	34:443 (455:0)	34:444 (456:0)	34:445 (457:0)	34:446 (458:0)	34:447 (459:0)	34:448 (460:0)	34:449 (461:0)	34:450 (462:0)	34:451 (463:0)	34:452 (464:0)	34:453 (465:0)	34:454 (466:0)	34:455 (467:0)	34:456 (468:0)	34:457 (469:0)	34:458 (470:0)	34:459 (471:0)	34:460 (472:0)	34:461 (473:0)	34:462 (474:0)	34:463 (475:0)	34:464 (476:0)	34:465 (477:0)	34:466 (478:0)	34:467 (479:0)	34:468 (480:0)	34:469 (481:0)	34:470 (482:0)	34:471 (483:0)	34:472 (484:0)	34:473 (485:0)	34:474 (486:0)	34:475 (487:0)	34:476 (488:0)	34:477 (489:0)	34:478 (490:0)	34:479 (491:0)	34:480 (492:0)	34:481 (493:0)	34:482 (494:0)	34:483 (495:0)	34:484 (496:0)	34:485 (497:0)	34:486 (498:0)	34:487 (499:0)	34:488 (500:0)	34:489 (501:0)	34:490 (502:0)	34:491 (503:0)	34:492 (504:0)	34:493 (505:0)	34:494 (506:0)	34:495 (507:0)	34:496 (508:0)	34:497 (509:0)	34:498 (510:0)	34:499 (511:0)	34:500 (512:0)	34:501 (513:0)	34:502 (514:0)	34:503 (515:0)	34:504 (516:0)	34:505 (517:0)	34:506 (518:0)	34:507 (519:0)	34:508 (520:0)	34:509 (521:0)	34:510 (522:0)	34:511 (523:0)	34:512 (524:0)	34:513 (525:0)	34:514 (526:0)	34:515 (527:0)	34:516 (528:0)	34:517 (529:0)	34:518 (530:0)	34:519 (531:0)	34:520 (532:0)	34:521 (533:0)	34:522 (534:0)	34:523 (535:0)	34:524 (536:0)	34:525 (537:0)	34:526 (538:0)	34:527 (539:0)	34:528 (540:0)	34:529 (541:0)	34:530 (542:0)	34:531 (543:0)	34:532 (544:0)	34:533 (545:0)	34:534 (546:0)	34:535 (547:0)	34:536 (548:0)	34:537 (549:0)	34:538 (550:0)	34:539 (551:0)	34:540 (552:0)	34:541 (553:0)	34:542 (554:0)	34:543 (555:0)	34:544 (556:0)	34:545 (557:0)	34:546 (558:0)	34:547 (559:0)	34:548 (560:0)	34:549 (561:0)	34:550 (562:0)	34:551 (563:0)	34:552 (564:0)	34:553 (565:0)	34:554 (566:0)	34:555 (567:0)	34:556 (568:0)	34:557 (569:0)	34:558 (570:0)	34:559 (571:0)	34:560 (572:0)	34:561 (573:0)	34:562 (574:0)	34:563 (575:0)	34:564 (576:0)	34:565 (577:0)	34:566 (578:0)	34:567 (579:0)	34:568 (580:0)	34:569 (581:0)	34:570 (582:0)	34:571 (583:0)	34:572 (584:0)	34:573 (585:0)	34:574 (586:0)	34:575 (587:0)	34:576 (588:0)	34:577 (589:0)	34:578 (590:0)	34:579 (591:0)	34:580 (592:0)	34:581 (593:0)	34:582 (594:0)	34:583 (595:0)	34:584 (596:0)	34:585 (597:0)	34:586 (598:0)	34:587 (599:0)	34:588 (600:0)	34:589 (601:0)	34:590 (602:0)	34:591 (603:0)	34:592 (604:0)	34:593 (605:0)	34:594 (606:0)	34:595 (607:0)	34:596 (608:0)	34:597 (609:0)	34:598 (610:0)	34:599 (611:0)	34:600 (612:0)	34:601 (613:0)	34:602 (614:0)	34:603 (615:0)	34:604 (616:0)	34:605 (617:0)	34:606 (618:0)	34:607 (619:0)	34:608 (620:0)	34:609 (621:0)	34:610 (622:0)	34:611 (623:0)	34:612 (624:0)	34:613 (625:0)	34:614 (626:0)	34:615 (627:0)	34:616 (628:0)	34:617 (629:0)	34:618 (630:0)	34:619 (631:0)	34:620 (632:0)	34:621 (633:0)	34:622 (634:0)	34:623 (635:0)	34:624 (636:0)	34:625 (637:0)	34:626 (638:0)	34:627 (639:0)	34:628 (640:0)	34:629 (641:0)	34:630 (642:0)	34:631 (643:0)	34:632 (644:0)	34:633 (645:0)	34:634 (646:0)	34:635 (647:0)	34:636 (648:0)	34:637 (649:0)	34:638 (650:0)	34:639 (651:0)	34:640 (652:0)	34:641 (653:0)	34:642 (654:0)	34:643 (655:0)	34:644 (656:0)	34:645 (657:0)	34:646 (658:0)	34:647 (659:0)	34:648 (660:0)	34:649 (661:0)	34:650 (662:0)	34:651 (663:0)	34:652 (664:0)	34:653 (665:0)	34:654 (666:0)	34:655 (667:0)	34:656 (668:0)	34:657 (669:0)	34:658 (670:0)	34:659 (671:0)	34:660 (672:0)	34:661 (673:0)	34:662 (674:0)	34:663 (675:0)	34:664 (676:0)	34:665 (677:0)	34:666 (678:0)	34:667 (679:0)	34:668 (680:0)	34:669 (681:0)	34:670 (682:0)	34:671 (683:0)	34:672 (684:0)	34:673 (685:0)	34:674 (686:0)	34:675 (687:0)	34:676 (688:0)	34:677 (689:0)	34:678 (690:0)	34:679 (691:0)	34:680 (692:0)	34:681 (693:0)	34:682 (694:0)	34:683 (695:0)	34:684 (696:0)	34:685 (697:0)	34:686 (698:0)	34:687 (699:0)	34:688 (700:0)	34:689 (701:0)	34:690 (702:0)	34:691 (703:0)	34:692 (704:0)	34:693 (705:0)	34:694 (706:0)	34:695 (707:0)	34:696 (708:0)	34:697 (709:0)	34:698 (710:0)	34:699 (711:0)	34:700 (712:0)	34:701 (713:0)	34:702 (714:0)	34:703 (715:0)	34:704 (716:0)	34:705 (717:0)	34:706 (718:0)	34:707 (719:0)	34:708 (720:0)	34:709 (721:0)	34:710 (722:0)	34:711 (723:0)	34:712 (724:0)	34:713 (725:0)	34:714 (726:0)	34:715 (727:0)	34:716 (728:0)	34:717 (729:0)	34:718 (730:0)	34:719 (731:0)	34:720 (732:0)	34:721 (733:0)	34:722 (734:0)	34:723 (735:0)	34:724 (736:0)	34
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APR. 15. 2004. 9:44AM
3615 - 16

ABBOTT LABS. PRODUCTS DIVISION
AT ABBOTT LABORATORIES

NO. 3536 P. 18

PROJECT TITLE Imagene Oil

Fatty Acid Profile

Amide	3140/3142	3140/3144	3140/3146	3140/3148	3140/3150
Lowest	AA	AA	AA	AA	AA
	9	10	11	12	13
	LRL-5112	LRL-5113	LRL-5114	LRL-5115	LRL-5116
	01470001	01471001	01472001	01473001	01474001
	g/g sample				
C10:0	16.27	9.45	11.96	21.60	
C12:0	8.04	9.47	10.33	14.10	
C14:0	3.15	6.74	5.39	3.27	
C16:0	1.12	2.12	1.95	1.32	
C18:0	0.44	0.90	0.93	0.46	
C20:0	22.06	40.97	36.07	25.22	
C22:0	27.24	62.67	50.12	28.73	
C24:0	0.31	0.65	0.51	0.39	
C26:0	0.19	0.23	0.26	0.22	
C28:0					
C30:0					
C32:0					
C34:0					
C36:0					
C38:0					
C40:0					
C42:0					
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C46:0					
C48:0					
C50:0					
C52:0					
C54:0					
C56:0					
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C60:0					
C62:0					
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Therogenic Oil

Fatty Acid Profile

[illegible]

Lipid Research Lab

Fatty Acid Profile

[illegible]

Lipid Research Lab

Project No.	Signature <i>Bonanda E. Leonard</i>	Date <i>1/11/01</i>
Witnessed By <i>Paul Johns</i>		Date

PROJECT TITLE Transgenic Oil

Fatty Acid Profile

Assay	ADA	ADA	ADA	ADA	ADA
Assay	ADA	ADA	ADA	ADA	ADA
C10:0	18.50	23.50	25.75	12.18	
C12:0	9.84	11.75	15.59	7.77	
C14:0	3.98	2.38	5.34	2.75	
C16:0	1.84	1.09	1.78	1.55	
C18:0	0.53	0.23	0.56	0.33	
C18:1n7	24.62	19.27	39.84	14.03	
C18:1n7	37.74	22.78	50.70	21.03	
C18:2n6	0.48	0.21	0.47	0.51	
C18:3n3	0.21	0.19	0.23	0.17	
C18:3n3	3.65	3.60	7.09	2.55	
C18:1n7	18.55	17.04	34.35	12.78	
C18:1n7	1.76	1.77	3.51	10.39	
C18:2n6	0.19	0.21	0.46	0.40	
C18:3n3	0.47	0.80	0.74		
C20:0	0.42	0.22	1.66	0.16	
C20:1n7	0.94	0.94	1.52	0.29	
C20:2n6	1.34	1.41	1.52	1.32	
C20:3n3	1.84	1.16	1.89	1.04	
C22:0	32.17	35.25	51.29	24.78	
C22:1n7	1.88	1.82	2.50	1.94	
C22:2n6	3.58	3.58	0.78		
C24:0	156	148	248	117	
C24:1n7					
C24:2n6					
C24:3n3					
C24:4n7					
C24:5n3					
C24:6n7					
C24:7n7					
C24:8n7					
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C24:99n7					
C24:100n7					

Fatty Acid Profile

Assay	ADA	ADA	ADA	ADA	ADA
Assay	ADA	ADA	ADA	ADA	ADA
C10:0	10.53	10.05	10.46	10.39	
C12:0	6.25	7.87	8.33	8.63	
C14:0	2.51	1.56	2.17	2.35	
C16:0	1.23	0.73	0.72	1.32	
C18:0	0.33	0.15	0.23	0.28	
C18:1n7	13.62	12.81	16.18	11.97	
C18:1n7	23.94	15.26	20.59	17.95	
C18:2n6	0.30	0.14	0.19	0.43	
C18:3n3	0.13	0.12	0.09	0.15	
C18:3n3	2.31	2.41	2.88	2.15	
C18:1n7	11.77	11.41	13.85	10.91	
C18:1n7	1.13	1.16	1.42	8.87	
C18:2n6	0.12	0.14	0.15	0.34	
C18:3n3	0.32	0.24	0.24	0.83	
C20:0	0.26	0.15	0.76	0.25	
C20:1n7	0.63	0.63	0.12	0.12	
C20:2n6	0.12	0.14	0.15	0.34	
C20:3n3	0.32	0.24	0.24	0.83	
C20:4n3	1.04	0.77	0.89	0.88	
C22:0	0.85	0.84	0.82	1.13	
C22:1n7	20.41	21.61	20.83	21.15	
C22:2n6	1.25	1.22	1.01	1.86	
C22:3n3					
C22:4n3					
C22:5n3					
C22:6n3					
C22:7n3					
C22:8n3					
C22:9n3					
C22:10n3					
C22:11n3					
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C22:100n3					

Project No.	Signature	Date
Witnessed By	<i>Rosanda E. Lizard</i>	
		Date

Transgenic Oil

Fatty Acid Profile

[illegible]

Lipid Research Lab

Fatty Acid Profile

[illegible]

Lipid Research Lab

Project No.	Signature <i>Amanda E. Leonard</i>	Date
Witnessed By <i>Paul Johns</i>		Date